UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address; COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

# NOTICE OF ALLOWANCE AND FEE(S) DUE

74321 7590 0624/2009

LAHIVE & COCKFIELD, LLP/THE MATHWORKS
FLOOR 30, SUITE 3000
One Post Office Square

EXAMINER

ALAM, SHAHID AL

ART UNIT PAPER NUMBER

2162

DATE MAILED: 06/24/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
09/910,170	07/20/2001	Howard Taitel	MWS-041RCE2	1865			
TITLE OF INVENTION: PARTITIONING FOR MODEL-BASED DESIGN							

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/24/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

Boston, MA 02109-2127

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further c indicated unless correcte maintenance fee notificat	form should be used for correspondence includir d below or directed oth ions.	or tran ng the I nerwise	smitting the ISSU atent, advance or in Block 1, by (a						ould be completed where correspondence address a rate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				I I	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
74321 7599 666242009  LAHIVE & COCKFIELD, LLP/THE MATHWORKS FLOOR 30, SUITE 3000 One Post Office Square				KS 1	Ineventive to work certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmital is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE HEL address above, or being facsimile transmitted to the USPTO (27) 1273-2885, on the date indicated between				
Boston, MA 0210	09-2127								(Depositor's name)
									(Signature)
				Į					(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENT	OR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
09/910,170	07/20/2001			Howard Taitel			λ	IWS-041RCE2	1865
TITLE OF INVENTION:	PARTITIONING FOR								
APPLN, TYPE	SMALL ENTITY	ISS	SUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1510	\$300		\$0		\$1810	09/24/2009
EXAMI	NER		ART UNIT	CLASS-SUBCLASS	П				
ALAM, SH	AHID AL		2162	707-001000	_				
"Fee Address" indi- PTO/SB/47; Rev 03-0; Number is required.  3. ASSIGNEE NAME AN	ondence address (or Cha v/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA 258 an assignee is ident in 37 CFR 3.11. Comp	nge of 6 " Indicated. Use	Correspondence tion form of a Customer		p to : native ingle or ag attor be p type e pal an a	3 registered paten ely, firm (having as a gent) and the name neys or agents. If a printed.	membes of u	er a 2p to	ocument has been filed for
Please check the appropri	ate assignee category or	catego	ries (will not be pr	inted on the patent):	0	Individual 🗖 Co	rporati	ion or other private gro	up entity 🚨 Government
Advance Order - #	o small entity discount p		d)	o. Payment of Fee(s): (I     A check is enclose     Payment by credit     The Director is her     overpayment, to D	d. card	l. Form PTO-2038 authorized to char	is atta	sched. required fee(s), any del	
	SMALL ENTITY state	ıs. See :	37 CFR 1.27.					ITTY status. See 37 CF	
interest as shown by the n	Publication Fee (if requeended of the United Sta	uired) v ites Pate	nt and Trademark	d from anyone other the Office.	an th	e applicant; a regi	stered	attorney or agent; or th	e assignee or other party ir
Authorized Signature						Date			
Typed or printed name					-				
This collection of informs an application. Confidenti submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	ation is required by 37 C iality is governed by 35 application form to the one for reducing this but reginia 22313-1450. DC (3-1450.	FR 1.3 U.S.C. USPTO rden, sh O NOT	11. The information 122 and 37 CFR O. Time will vary ould be sent to the SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the ir e Chief Information Of COMPLETED FORMS	or re esti- divi- ficer S TO	tain a benefit by the mated to take 12 r dual case. Any co r, U.S. Patent and THIS ADDRESS	ne pub ninute: mment Traden . SEN	lic which is to file (and s to complete, includin is on the amount of tin nark Office, U.S. Deps D TO: Commissioner I	by the USPTO to process, g gathering, preparing, and he you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

ss; COMMISSIONER FOR PATENTS P O Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DATE MAILED: 06/24/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/910,170	07/20/2001	Howard Taitel	MWS-041RCE2	1865
74321	7590 06/24/2009		EXAM	IINER
LAHIVE & CC	CKFIELD, LLP/THE	ALAM, SHAHID AL		
FLOOR 30, SUI		ART UNIT	PAPER NUMBER	
One Post Office S Boston, MA 0210			2162	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 513 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 513 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)				
09/910,170	TAITEL, HOWARD				
Examiner	Art Unit				
Shahid Al Alam	2162				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to telephonic interview on June 10, 2009.
- The allowed claim(s) is/are 44-49 and 52.
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - b) Some\* c) None of the: a)  $\square$  All
    - Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_
    - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received:

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date
    - (b) Including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 06162009.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. 

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2 Notice of Draftperson's Patent Drawing Review (PTO-943).
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- 6 Interview Summery (PTO-413). Paper No./Mail Date
- Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
  - /Shahid Al Alam/

9. ☐ Other Primary Examiner, Art Unit 2162

#### DETAILED ACTION

Claims 44 - 49 and 52 are pending in this Office action

#### Drawings

New corrected drawings in compliance with 37 CFR 1.121(d) is required in this application because drawings submitted on July 20, 2001 are informal drawing.

Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

#### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kevin J. Canning on June 10, 2009.

The application has been amended as follows:

## In the claim:

Application/Control Number: 09/910,170 Page 3

Art Unit: 2162

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the

application. Claim set showing marked up claims with insertions indicated by

underlining and deletions indicated by strikeouts and/or double bracketing.

Listing of Claims:

1 - 43. (Canceled)

44. (Currently amended) The method of claim [[43]] 52 wherein non-critical portions are

post-processing units.

45. (Previously presented) The method of claim 44 wherein the post-processing units

are logical units of the model that have no synchronized data outputs feeding non-post-

processing sections of the model.

46. (Currently amended) The method of claim [[43]] 52 wherein the generating further

comprises:

establishing an inter-process communication link between the generated

computer program instructions and the non-critical portions of the model.

Application/Control Number: 09/910,170 Page 4

Art Unit: 2162

47. (Currently amended) The method of claim 46 further comprising:

receiving output from the generated <u>computer program instructions</u> via the interprocess communications link.

process communications link.

48. (Currently amended) The method of claim 47 further comprising executing the

computer program instructions on a target processor associated with the target.

49. (Previously presented) The method of claim 47 further comprising:

processing the output in the non-critical portions of the model.

50. (Canceled)

51. (Canceled)

52. (Previously presented) A method of generating computer program instructions with

a computer, comprising:

analyzing components in a simulatable block diagram model with the computer to identify components that are critical to control of a hardware device and to identify

components that are not critical to control of the hardware device:

marking with the computer the components identified as critical to control of the

hardware device as critical components;

Application/Control Number: 09/910,170

Art Unit: 2162

marking with the computer the components identified as not critical to control of the hardware device as non-critical components;

generating the computer program instructions for the simulatable block diagram model with an automatic code generator on the computer, the computer program instructions implementing behavior of the block diagram model, said generating comprising;

generating computer program instructions for the components of the block diagram model that are marked as critical; and

ignoring the components of the block diagram model that are marked noncritical so that no computer program instructors are generated for the components of the block diagram model that are marked as non-critical.

#### Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Claims 1-4, 6-10 and 13-18 as amended and as presented are allowed over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shahid Al Alam whose telephone number is (571) 272-4030. The examiner can normally be reached on Monday-Thursday 8:00 A.M.- 4:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Shahid Al Alam/ Primary Examiner, Art Unit 2162

June 17, 2009